

PROCEEDINGS OF THE  
ENTOMOLOGICAL SOCIETY OF WASHINGTON

Vol. 69

SEPTEMBER 1967

No. 3

A SYNOPTIC CATALOG OF THE MOSQUITOES OF THE WORLD,  
SUPPLEMENT III  
(DIPTERA: CULICIDAE)<sup>1</sup>

ALAN STONE, *Entomology Research Division, ARS, U. S. Department of  
Agriculture, Washington, D. C. 20560*

This paper is the third supplement to the *Synoptic Catalog of the Mosquitoes of the World* by Stone, Knight, and Starcke (1959), the second supplement having appeared in Vol. 65 (1963), No. 2, pp. 117-140 of the *Proceedings*. The introductory remarks as to format and coverage in Supplement II apply to this supplement also. One new name of the genus-group and 104 new names of the species group are listed. I am particularly indebted to T. H. G. Aitken, M. Delfinado, B. de Meillon, J. C. Hitchcock, Jr., C. L. Hogue, Z. Liepa, J. P. Macnamara, P. F. Mattingly, J. A. Reid, J. E. Scanlon, H. Sollers-Riedel, and T. J. Zavortink for pertinent information.

**Introduction**

Page

1. With the additions in this supplement and taxonomic changes, the number of valid genera and subgenera stands at 119, the number of valid species becomes 2,680, and the total number of names of the species-group 4,319.

**Systematic Arrangement**

6. The genus *Mansonia* (see p. 101) has been restricted to the two subgenera *Mansonia* and *Mansonioides*, and *Coquillettidia* raised to generic rank with *Rhynchotaenia* as a subgenus of it. *Kompia* has been restored to subgeneric status in the genus *Aedes*.

**Catalog of the Family Culicidae**

9. **Taxonomic Anatomy.**—1963b, Reid, 32-38 (pupal trumpet).  
**General Taxonomy.**—1966, Dodge, 337-393 (1st stage larvae).  
**Australasian Region.**—1966, Steffan, 179-237 (checklist, Papuan subregion).  
**Nearctic Region.**—1963, Dodge, 796-813 (larvae; eastern North America).  
**Neotropical Region.**—1961, Fauran, 2-60 (catalog, French Guiana); 1962, García and Ronderos, 105-212 (Anophelini, Argentina).  
**Oriental Region.**—1966, Delfinado, 1-252 (Culicini, Philippines).

<sup>1</sup> Reprints are for sale by the Thomas Say Foundation, Entomological Society of America, 4603 Calvert Road, College Park, Maryland 20740.

**Genus BIRONELLA Theobald**  
**Subgenus BIRONELLA Theobald**

10. **bironelli** (Christophers).—Transfer to p. 11 as synonym of *gracilis* Theobald.
11. **confusa** Bonne-Wepster.—Slooff, 1963, 138 (♂\*, ♀, P\*, L\*).
- gracilis** (Theobald).—I.C.Z.N., 1965, 164 (Validation under Plenary Powers).
- bironelli* (Christophers), *ibid.* (Placed on list of rejected and invalid specific names).

**Genus ANOPHELES Meigen**

*Important references:* 1962, Service, 120-158 (W. Africa, keys); 1963, Quy, 26-34 (keys, Vietnam); 1963, various authors in Russell, West, Manwell, and MacDonald, 641-701 (keys).

**Subgenus ANOPHELES Meigen**

13. *Important reference:* 1965, Reid, 106-125 (key, *aitkenii* group).
- acaci** Baisas.—Philippines, Borneo. Reid, 1965, 115 (L\*; syn.).
- borneensis* McArthur.
- aitkenii** James.—Philippines. Reid, 1965, 107 (♂\*, ♀, P, L\*, E; syn.).
- pallida* Ludlow.
- fragilis* Theobald.—Transfer to p. 18 as valid species.
- ssp. **treacherii** Leicester.—Transfer to p. 18 as synonym of *fragilis* Theobald.
- ssp. **bengalensis** Puri.—Change volume number from 18 to 17; transfer to p. 16 as valid species.
14. *pallida* Ludlow.—Transfer to p. 13 as synonym of *aitkenii* s. str.
- var. **borneensis** McArthur.—Transfer to p. 13 as synonym of *acaci* Baisas.
- ssp. **stantoni** Puri.—Transfer to p. 18 as synonym of *fragilis* Theobald; change BM to NE.
- var. **djajasanensis** (Brug).—Change to *djajasanensis* (Brug). See Reid reference under ssp. *interruptus* (syn.).
- ssp. **interruptus** Puri.—Malaya. Reid, 1963a, 111 (taxonomy); change ssp. to var.
- annulipalpis** Lynch Arribálzaga.—García and Casal, 1964 (1965). Rev. Soc. ent. Argentina 27: 5 (P\*).
15. **asiaticus** (Leicester).—Delete parentheses; insert as original citation "1903, J. trop. Med. 6: 291 (A); delete *Lophoscelomyia*."
16. **bengalensis** Puri.—Pakistan (Bengal), India (Assam), Burma, Thailand, Indo China, Philippines, S. China, Taiwan. Reid, 1965, 113 (♂\*, ♀, P\*, L\*; to sp. status).
- brevipalpus** Roper.—Change "Moluccas" to "Bangka Island."
- petraghani* Del Vecchio.—Transfer to p. 25 as valid species; insert "as var." after "E\*,"
- missiroli* Del Vecchio.—Insert "as var." after "E\*."
17. **collessi** Reid.—Malaya, Borneo.
- 1963a. Ann. trop. Med. Parasit. 57: 103 (♂\*, ♀, P, L\*, E\*).
- Type-loc: Ulu Gombak near Kuala Lumpur, Selangor, Malaya (BM).
- var. **ziemanni** Grünberg.—Insert "as sp." after "♀."

18. **fragilis** Theobald.—Malaya, Indonesia e. to Celebes and Borneo, Philippines. Reid, 1965, 109 (♂\*, ♀, P\*, L\*; syn.).  
*treacherii* Leicester.  
*stantoni* Puri.
19. var. **formosus** Ludlow.—Insert “; as sp.” after “♀.”  
var. **simlensis** (James).—Insert “; as sp.” after “*Patagiamyia*.”  
var. **oedjalikalabensis** Nainggolan.—Change to **oedjalikalah**; insert in Bonne-Wepster and Swellengrebel after “L\*,” “; as *oedjalikalabensis*.”  
var. **udjalikalah** Waktocdi.—Delete, merely a variant spelling of above.
20. **insulaeforum** (Swellengrebel and Swellengrebel de Graaf).—Burma, Thailand, Taiwan. Delete “? Japan, ? New Guinea, ? Australia.” Reid, 1965, 119 (♂\*, ♀, P\*, L\*).
21. **lesteri** Baisas and Hu.—Japan, China.  
**letifer** Sandosham.—Thailand.
22. ssp. **japonicus** Yamada.—Insert “; as sp.” after “♀\*” in first line.
24. **noniae** Reid.—Malaya.  
1963a. Ann. trop. Med. Parasit. 57: 108 (♂, ♀\*, P\*, L\*). Type-loc: Ulu Langat, Selangor, Malaya (BM).  
*pursati* Laveran.—Transfer to p. 27 as valid sp.  
**palmatus** Rodenwaldt.—Delete “?” before Malaya. Reid, 1965, 117 (L\*).
25. **petragnani** Del Vecchio.—Mediterranean Region. Coluzzi, 1962, 1025 (resurrected from synonymy).
26. ssp. **franciscanus** McCracken.—Change “SU” to “LACM”.  
*willardi* Vargas.—Delete “Ciudad Juárez.”
27. **stonei** Vargas.—Insert “and USNM” after “ISET.”  
*annulimanus* Van der Wulp.—Change “North America” to “Wisconsin.”  
**pursati** Laveran.—Indochina, Thailand, Malaya. Reid, 1963a, 98 (♂\*, ♀\*, P\*, L\*; resurrected from synonymy).
28. **roperi** Reid.—Assam.
29. **sintonoides** Ho.—Malaya, Thailand.  
**stricklandi** Reid.—Malaya.  
1965. Ann. trop. Med. Parasit. 59: 121 (♂\*, ♀, P\*, L\*). Type-loc: Johore, Malaya (BM).  
**tasmaniensis** Dobroworsky.—Tasmania, Australia.  
1966. Proc. Linn. Soc. N.S.W. 91: 130 (♂\*, ♀\*, P\*, L\*, E\*).  
Type-loc: Birrallee, Tasmania (CSIR).  
**tibiamaculatus** (Neiva).—Argentina.  
**tigerti** Scanlon and Peyton.—Thailand.  
1967. Proc. ent. Soc. Wash. 69: 19 (♂\*, ♀, P\*, L\*). Type-loc: Ban Bu Phram, Prachinburi Province, Thailand (USNM).
30. **whartoni** Reid.—Malaya.  
1963a. Ann. trop. Med. Parasit. 57: 106 (♂, ♀\*, P, L, E). Type-loc: Singgora, Maran, Pahang, Malaya (BM).

#### Subgenus NYSSORHYNCHUS Blanchard

- albitarsis** Lynch Arribálzaga.—García and Casal, 1964 (1965). Rev. Soc. ent. Argentina 27: 6 (P\*).

Subgenus **KERTESZIA** Theobald

35. **bambusicolus** Komp.—Change to **bambusicola**.  
 36. **hylephilus** Dyar and Knab.—Delete “Manoa, Orinoco River, Venezuela; Guayaquil, Ecuador and.” Belkin, Schick and Heine-  
 mann, 1965, 44 (lectotype).

Subgenus **CELLIA** Theobald

38. **apoci** Marsh.—Arab, 1963, 73 (P\*).  
 39. **brohieri** Edwards.—Transfer, with synonym, to p. 44 as variety of *hancocki* Edwards.  
 40. **cavernicolus** Abonnenc.—Change to **cavernicola**.  
 41. **cydippis** De Meillon.—Lips, 1962, 108 (to sp. status).  
*punjabensis* James.—Insert “; as var.” after “*Myzomyia*.”  
*melanocosta* Newstead and Carter.—Insert “; as var.” after *Pyretophorus*.  
**domicolus** Edwards.—Change to **domicola**; transfer to p. 46 as variety of *longipalpis* (Theobald).  
*wardi* Leeson and Theodor.—Insert “; as var.” after “L\*.”  
 42. **errabundus** (Swellengrebel).—Transfer to p. 32 as synonym of *darlingi* Root. Reid and Bonne-Wepster, 1966, 190 (suppression proposed).  
 43. *subumbrosa* Theobald.—Change to *subumbrosus*, delete *Myzomyia*, and change reference to Mem. Lpool Sch. trop. Med. 10 (App.): 4.  
**gambiae** Giles.—Coluzzi, 1964, 197-232 (taxonomy).  
*merus* Dönitz.—Transfer to p. 48 as valid species.  
*litoralis* Halcrow.—Transfer to p. 48 as synonym of *merus* Dönitz.  
 44. var. **melas** (Theobald).—Delete *Pyretophorus* and parentheses around Theobald. Change reference to Mem. Lpool Sch. trop. Med. 10 (App.): 2. Place Bathurst in [ ]. Transfer to p. 48 as valid species.  
**grenieri** Grjebine.—Madagascar.  
 1964. Bull. Soc. Path. exot. 57: 38 (L\*). Type-loc: Ampandratraka, Anosibé Distr., Madagascar (IRSM).  
**hancocki** Edwards.  
 var. **brohieri** Edwards.—Adam, Hamon, Rickenbach and Lips, 1956, 756 (to var. status).  
 45. **indefinitus** (Ludlow).—Malaya, Philippines, Indochina, China, Taiwan, Mariana Islands. Reid, 1966, 327 (to sp. status; syn.).  
*malayensis* Hacker.  
**jamesii** Theobald.—Malaya.  
 46. **longipalpis** (Theobald).  
 var. **domicola** Edwards.—Adam, Bruce-Chwatt, and Hamon, 1956, 107 (to var. status).  
 47. ssp. **willmori** (James).—Change to **willmorei**, here emended.  
 48. var. **pitchfordi** (Giles).—Insert “; as ssp.” after “*Pyretophorus*.”  
**melas** (Theobald).—Coluzzi, 1964, 275 (to sp. status).  
**merus** Dönitz.—Coluzzi, 1964, 225 (to sp. status; syn.).  
*litoralis* Halcrow.  
*tangensis* Kuhlow, 1962, Ztschr. f. Tropenmed. u. Parasit. 13: 448 (♂, ♀). Type-loc: Tanga, Tanganyika (BNI).  
 49. ssp. **flavirostris** (Ludlow).—Delete “f.” after “*Myzomyia*” and insert “; as sp.”



52. ssp. **rupicolus** Lewis.—Change to **rupicola**.  
 55. var. **indefinitus** (Ludlow).—Transfer to p. 45 as valid species with var. *malayensis* Hacker as synonym.  
 var. **cydippis** De Meillon.—Transfer with synonym to p. 41 as valid species.  
**subpictus** Grassi.  
 var. **vadakadiensis** Doraisamy.—India.  
 1963. Bull. Ent. (Madras) 4: 42 (L\*). Type-loc: Near Vadakadu, Rameswaram Island, Madras, India (MSI).  
 56. **swahilius** Gillies.—Kenya, Tanzania.  
 1964. Proc. R. ent. Soc. Lond. (B) 33: 67 (♂\*, ♀\*, P, L\*). Type-loc: Goshi, Molindi Distr., Kenya (BM).  
 var. **orientalis** Swellengrebel and Swellengrebel de Graaf.—Insert "*Neomyzomyia*" before "*punctulata*."  
 57. **theobaldi** Giles.—Change original reference to "1901. Ent. mon. Mag. 37: 198."  
 58. **varuna** Iyengar.—Change IM to LU.

#### Genus TOXORHYNCHITES Theobald

59. Important reference: 1962, Lima, Guitton, and Ferreira, 225-252 (*Ankylorhynchus* and *Lynchiella*, revision, key).

#### Subgenus ANKYLORHYNCHUS Lutz

- catharinensis** (Lima, Guitton, and Ferreira).—Brazil.  
 1962. Mem. Inst. Osw. Cruz 60: 230 (♂\*, ♀, P\*, L\*; *Ankylorhynchus*). Type-loc: Not given, but probably Santa Catarina, Brazil (IOC).

#### Subgenus LYNCHIELLA Lahille

- bambusicolus** (Lutz and Neiva).—Change to **bambusicola**.  
*mara* Anduze.—Lima, Guitton, and Ferreira 1962, 243 (syn. suggested).  
*guyanensis* Bonne-Wepster and Bonne.—Insert "; as ssp." after "*Megarhinus*."

60. ssp. **septentrionalis** (Dyar and Knab).—Dodge, 1964, 46-53 (L\*).  
 61. *mara* Anduze.—Transfer to p. 59 as synonym of *bambusicola*.

#### Subgenus TOXORHYNCHITES Theobald

62. **aurifluus** (Edwards).—Lien, 1965, 9 (♂\*, ♀\*, P\*, L\*).  
 ssp. **conradti** Grünberg.—Corbet, 1963, 9 (L\*, P\*, E).  
 63. **kaimosi** (Somerén).—Corbet, 1963, 11 (P\*).  
 64. **manicatus** (Edwards).—Lien, 1965, 2 (♂\*, ♀\*, P\*, L\*).

#### Genus TRIPTEROIDES Giles

65. Important reference: 1963b, Peters, 89-100 (New Guinea, key P).

#### Subgenus TRIPTEROIDES Giles

68. **elegans** Brug.—Peters, 1963b, 89 (P\*, L\*).  
**lorengau** Peters.—New Guinea.  
 1963. Proc. R. ent. Soc. Lond. (B) 32: 67 (♂\*, ♀, P\*, L\*). Type-loc: Lorengau River, Manus Island, New Guinea (CSIR).

69. **nissanensis** Lee.—Peters, 1963a, 70 (P\*).  
**novohanoverae** Peters.—New Guinea.  
 1963. Proc. R. ent. Soc. Lond. (B) 32: 63 (♂\*, ♀, P\*, L\*).  
 Type-loc: Noipuas, New Hanover, New Guinea (CSIR).  
 71. **szechwanensis** Hsu.—China.  
 1964. Acta ent. Sinica 13: 298 (♂\*, L\*). Type-loc: Chengtu,  
 Szechwan, China (SMC).

#### Subgenus RACHIONOTOMYIA Theobald

72. **marksae** Dobrotworsky.—Australia.  
 1965. Mosq. of Victoria :58 (♂\*, ♀, L\*). Type-loc: Cabbage  
 Tree Creek, Victoria, Australia (NMM).  
**perplexus** Peters.—New Guinea.  
 1963. Proc. R. ent. Soc. Lond. (B) 32: 91 (♀, P\*). Type-loc:  
 Maprik, Sepik District, New Guinea (CSIR).

#### Genus TRICHOPROSOPON Theobald Subgenus TRICHOPROSOPON Theobald

73. var. **mogilasium** (Dyar and Knab).—Insert “; as sp.” after “*Joblotia*.”  
 74-77. Running Heads. Change “TRICHOPOSOPON” to “TRICHO-  
 PROSOPON.”

#### Subgenus SHANNONIANA Lane and Cerqueira

74. **fluviatilis** (Theobald).—Change to **fluviatile**.

#### Subgenus RUNCHOMYIA Theobald

76. **cotopaxensis** Levi Castillo.—Change to **cotopaxense**.  
**edwardsianum** Lane and Cerqueira.—Cerqueira, 1961, 460 (♂\*, ♀,  
 P\*, L\*).  
 77. **lunatum** (Theobald).—Delete “Argentina.”  
**paranensis** Brèthes.—Argentina. García and Casal, 1965, 14 (♂\*,  
 resurrected from syn.); place after *pallidiventer*.

#### Genus WYEOMYIA Theobald Subgenus WYEOMYIA Theobald

79. **culebrae** Dyar.—Change “1926” to “1923.”  
 80. **labesba** Howard, Dyar and Knab.—Change “Ancon” to “Tabernilla.”

#### Subgenus DENDROMYIA Theobald

84. **belkini** Casal and García.—Argentina.  
 1966. Physis 26: 155 (♂\*, ♀\*, L\*, P\*). Type-loc: Igu, Misiones,  
 Argentina (INM).

#### Genus PHONIOMYIA Theobald

89. **lassalli** (Bonne-Wepster and Bonne).—Change “LU” to “USNM.”  
 Lectotype here selected bears labels: Trinidad, W.I./F.W.  
 Urich Collector/ B12-6/ See slide No. 364/ ♂ of *trinidad-*  
*ensis* D. K. ident. 1906; terminalia on slide 364.

#### Genus LIMATUS Theobald

90. **Simondella**.—Change “Lavarán” to “Laveran.”

**Genus SABETHES Robineau-Desvoidy**  
**Subgenus SABETHES Robineau-Desvoidy**

91. *kappleri* Bonne.—Change “LU” to “NE.”

**Subgenus SABETHOIDES Theobald**

93. *rangeli* Surcouf and Gonzales-Rincones.—Change “Sabethoides” to “Sabethoides.”

**Genus TOPOMYIA Leicester**

95. *aureoventer* Theobald.—Change “BM” to “IM”; only slide of wing and leg in BM.

**Genus FICALBIA Theobald**  
**Subgenus RAVENALITES Doucet**

100. *deguzmanae* Mattingly.—Delfinado, 1966, 20 (♂\*, ♀, P\*, L\*).

**Genus MANSONIA Blanchard**

101. **Genus MANSONIA Blanchard.**—Transfer with following line to p. 104 preceding **Subgenus MANSONIOIDES.**

**Genus COQUILLETTIDIA Dyar**

Insert **Genus COQUILLETTIDIA** before **Subgenus COQUILLETTIDIA.**

*Important references:* 1962, Wharton, 1-114 (Malaya); 1962 (1963), Ronderos and Bachmann, 48-51 (to generic status).

**Subgenus COQUILLETTIDIA Dyar**

- crassipes* (Van der Wulp).—Wharton, 1962, 6 (♂\*, ♀, P\*, L\*, E).  
 102. *giblini* (Taylor).—Delete “Australia, Philippines, Formosa, Malaya, Thailand, Burma.”  
*nigrosignatus* Edwards.—Transfer to p. 103 as valid sp.  
*hodgkini* (Wharton).—Malaya, Indonesia.  
 1962. Inst. med. Res. Malaya, Bull. 11: 12 (♂\*, ♀\*, *Mansonia*).  
 Type-loc: Lamir (Pekan), Pahang, Malaya (BM).  
 103. *nigrosignata* (Edwards).—Malaya, Indonesia, Philippines. Wharton, 1962, 7 (♂\*, ♀\*, L\*, E; resurrected from synonymy).  
*testaceus* Van der Wulp.—Delete “[?] United States.”  
 104. *samoensis* Stone.—Samoa.  
 1966. Proc. ent. Soc. Wash. 68: 331 (♂\*, ♀). Type-loc: Tabalogi Ridge, Tau Island, Manua Group, Eastern Samoa (USNM).

**Subgenus RHYNCHOTAENIA Brèthes**

Insert **Subgenus RHYNCHOTAENIA**, its synonym, and all its species to follow species of **Subgenus COQUILLETTIDIA.**

**Genus MANSONIA Blanchard**

Insert **Genus MANSONIA Blanchard.** *Important references:* 1962, Wharton, 1-114 (Malaya); 1962 (1963), Ronderos and Bachmann, 46-48.

Subgenus **MANSONIOIDES** Theobald

105. **annulata** Leicester.—Celebes. Wharton, 1962, 15 (♂\*, ♀\*, P\*, L\*, E).  
**annulifera** (Theobald).—Delfinado, 1966, 23 (♂\*, ♀\*).  
**bonneae** Edwards.—Wharton, 1962, 17 (♂\*, ♀\*, P\*, L\*, E).  
**dives** (Schiner).—Wharton, 1962, 20 (♂\*, ♀\*, P\*, L\*, E).  
**papuensis** (Taylor).—Change "201" to "200" and "*Melanoconion*" to "*Taeniorhynchus*."

Subgenus **MANSONIA** Blanchard

106. *Important reference:* 1963, Ronderos and Bachmann, 57-65 (keys).  
**pseudotitillans** (Theobald).—Ronderos and Bachmann, 1963, 61 (♂\*, ♀\*, P\*, L\*).  
**titillans** (Walker).—Ronderos and Bachmann, 1963, 61 (♂\*, P\*, L\*, E\*).  
 107. Transfer **Subgenus RHYNCHOTAENIA**, its synonyms, and all its species to p. 104 as subgenus of **COQUILLETTIDIA**.

Subgenus **Uncertain**

108. **aurata** Dobrotworsky.—Australia.  
 1962. Proc. Linn. Soc. N.S.W. 87: 295 (♀\*). Type-loc: Cabbage Tree Creek, Victoria, Australia (NMM).  
**variegata** Dobrotworsky.—Australia.  
 1962. Proc. Linn. Soc. N.S.W. 87: 293 (♂\*, ♀\*). Type-loc: Cann River, Victoria, Australia (NMM).

Genus **URANOTAENIA** Lynch Arribálzaga

- albescens** Taylor.—Peters, 1964, 27 (A, P\*, L). Delete Penn 1949b reference.  
 109. **albosternopleura** Peters.—New Guinea.  
 1963. Proc. R. ent. Soc. Lond. (B) 32: 203 (♂, ♀\*). Type-loc: Maprik, Sepik Distr., New Guinea (CSIR).  
**amiensis** Peters.—New Guinea, Papua.  
 1963. Proc. R. ent. Soc. Lond. (B) 32: 207 (♂\*, ♀\*). Type-loc: Ami, 10 miles nw. of Maprik, Sepik Distr., New Guinea (CSIR).  
**annandalei** Barraud.—Philippines. Delfinado, 1966, 39 (♂\*, ♀, P\*, L\*).  
**arguellesi** Baisas.—Delfinado, 1966, 40 (♂\*, ♀, P\*, L\*).  
**argyrotarsis** Leicester.—Peters, 1964, 25 (♂\*, ♀, P, L).  
 110. **benoitii** Wolfs.—Congo.  
 1964, in Benoit, Mus. Roy. Afr. Centr. Ann., Sci. Zool. 132: 309 (L\*). Type-loc: Mwendua River, Kasongo, Congo (CMT).  
**bertii** Cova García and Rausseo.—Venezuela.  
 1964. Rev. Sanid. Asist. soc. 29: 221 (♂\*, ♀, P\*, L\*). Type-loc: Cumbre de Choroni, Aragua, Venezuela (DERM).  
**bimaculata** Leicester.—Delete Philippines.  
 111. **cavernicola** Mattingly.—Vattier and Adam, 1962 (1963), 911 (♂\*, P\*, L\*).  
 112. **clara** Dyar and Shannon.—Delfinado, 1966, 42 (♂\*, P\*, L\*).  
 113. **hirsutifemora** Peters.—Papua.  
 1964. Proc. Roy. ent. Soc. Lond. (B) 33: 21 (♂\*, ♀\*). Type-loc: Port Moresby, Central District, Papua (CSIR).

115. **ludlowae** Dyar and Shannon.—Delfinado, 1966, 47 ( $\delta$ ,  $\varphi$ , L; syn.).  
*reyi* Baisas.  
**maculipleura** Leicester.—Wattal and Kalra, 1965, 312 ( $\delta^*$ ).  
**mendiolai** Baisas.—Delfinado, 1966, 48 ( $\delta^*$ ,  $\varphi$ , P\*, L\*).
116. **moresbyensis** Peters.—Papua.  
 1963. Proc. R. ent. Soc. Lond. (B) 32: 204 ( $\delta^*$ ). Type-loc:  
 Port Moresby, Central Distr., Papua (CSIR).  
**nivea** Leicester.—Delfinado, 1966, 50 ( $\delta^*$ ,  $\varphi$ , L\*).
117. **novaguinensis** Peters.—New Guinea.  
 1963. Proc. R. ent. Soc. Lond. (B) 32: 141 ( $\delta^*$ ,  $\varphi$ , P\*, L). Type-  
 loc: Ami, 10 miles nw. of Maprik, Sepik District, New Guinea  
 (CSIR).  
 ssp. **alticola** Peters.—New Guinea.  
 1963. Proc. R. ent. Soc. Lond. (B) 32: 142 ( $\delta$ ,  $\varphi$ ). Type-  
 loc: Goroka, Eastern Highlands District, New Guinea  
 (CSIR).  
**obscura** Edwards.—Third line, change "Edwards, 1928" to "Edwards  
 and Given, 1928."
118. **paralateralis** Peters.—New Guinea.  
 1964. Proc. R. ent. Soc. Lond. (B) 33: 19 ( $\delta^*$ ,  $\varphi$ ). Type-loc:  
 Kavieng, New Ireland District, New Guinea (CSIR).  
**paranovaguinensis** Peters.—New Guinea.  
 1963. Proc. R. ent. Soc. Lond. (B) 32: 135 ( $\delta^*$ , P\*, L\*). Type-  
 loc: Maprik, Sepik District, New Guinea (CSIR).  
**philippinensis** Delfinado.—Philippines.  
 1966. J. med. Ent. 3: 36 ( $\delta^*$ ,  $\varphi$ , P\*, L\*). Type-loc: San Jose,  
 Mindoro, Philippines (USNM).  
**reyi** Baisas.—Transfer to p. 115 as synonym of *ludlowae* Dyar and  
 Shannon.  
**rossi** Delfinado.—Philippines.  
 1966. J. med. Ent. 3: 36 ( $\delta^*$ ,  $\varphi$ ). Type-loc: San Jose, Mindoro,  
 Philippines (USNM).
119. **testacea** Theobald.—Delfinado, 1966, 53 ( $\delta^*$ ,  $\varphi$ , P\*, L\*).
120. **tubanguii** Baisas.—Delfinado, 1966, 55 ( $\delta^*$ ,  $\varphi$ , P\*, L\*).

#### Genus HODGESIA Theobald

121. **malayi** Leicester.—Delfinado, 1966, 58 ( $\delta^*$ , P\*, L\*).

#### Genus ORTHOPODOMYIA Theobald

122. *Thomasina* Newstead and Carter.—Change "Newstead and Carter" to  
 "Newstead and Thomas" after *Mansonia longipalpis*.  
*nigritarsis* Leicester.—Change "(NE)" to "(BM)."
123. *albipes* Giles.—Delete entirely. Giles was not treating a Philippine  
 species.  
**nkolbissonensis** Rickenbach and Hamon.—Cameroon.  
 1966 (1965). Bull. Soc. Path. exot. 58: 1112 ( $\delta^*$ ,  $\varphi^*$ ). Type-  
 loc: Nkolbisson, 8 km from Yaounde, S. Cameroon (IERT).

#### Genus AEDEOMYIA Theobald

124. **catastieta** Knab.—Delfinado, 1966, 72 ( $\delta$ ,  $\varphi$ , P\*, L\*).

**Genus PSOROPHORA Robineau-Desvoidy**  
**Subgenus PSOROPHORA Robineau-Desvoidy**

125. **ciliata** (Fabricius).—Delete West Indies. Guedes et al., 1965, 15 ( $\delta^*$ ,  $\varphi^*$ ).  
**cilipes** (Fabricius).—Guedes et al., 1965, 15, 16 ( $\delta^*$ ,  $\varphi^*$ ).  
 126. **holmbergii** (Lynch Arribáizaga).—Guedes et al., 1965, 16 ( $\varphi^*$ ).  
**lineata** (Humboldt).—Delete Argentina, French Guiana, Brazil, Bolivia.  
**saeva** Dyar and Knab.—Transfer below as valid species with *genu-maculata* as synonym.  
**pallesceus** Edwards.—Guedes et al., 1965, 18 ( $\varphi^*$ ).  
**saeva** Dyar and Knab.—Argentina, Brazil, Surinam, Trinidad, Venezuela, ?Bolivia, ?French Guiana. Stone, 1967 (in press) (resurrected from synonymy).

**Subgenus JANTHINOSOMA Lynch Arribáizaga**

*Important reference:* 1964, Guedes and Souza, 471-486 (key).

- albigena** Peryassú.—Argentina, Bolivia, Brazil, Paraguay, Peru, Venezuela (northern limits of distribution uncertain). Guedes and Souza, 1964, 474 ( $\delta^*$ ,  $\varphi^*$ , P\*, L\*; resurrected from synonymy).  
*paraguayensis* Strickland.  
*bruchii* Petrocchi.  
**albipes** (Theobald).—Guedes and Souza, 1964, 476 ( $\delta^*$ , P\*, L\*).  
 127. **circumflava** Cerqueira.—Peru. Guedes et al., 1965, 18 (P\*).  
**cyanescens** (Coquillett).—Guedes et al., 1965, 18 ( $\delta^*$ ,  $\varphi^*$ ).  
**discrucians** (Walker).—Guedes et al., 1965, 19 ( $\delta^*$ ,  $\varphi^*$ ).  
**ferox** (Humboldt).—Guedes et al., 1965, 19 ( $\delta^*$ ,  $\varphi^*$ ).  
*pazosi* Pazos.—Insert before "Cuba," "Vuelta Abajo (Las Villas)."  
 128. **fiebrigi** Edwards.—Paraguay, Bolivia. Souza and Guedes, 1962, 249 ( $\delta^*$ ,  $\varphi^*$ ; resurrected from synonymy).  
**forceps** Cerqueira.—Guedes et al., 1965, 20 ( $\delta^*$ ,  $\varphi^*$ ).  
**lanei** Shannon and Cerqueira.—Guedes et al., 1965, 18 ( $\varphi^*$ ).  
**lutzii** (Theobald).—Change "*Janthinosoma*" to "*Janhtinosoma*." Guedes et al., 1965, 21 ( $\delta^*$ ,  $\varphi^*$ ).  
**varipes** (Coquillett).—Distribution and identity uncertain. Possibly Central American *varipes* is different from that in United States; most South American "*varipes*" is *albigena*.  
 129. **albigena** Peryassú.—Transfer to p. 128 as valid species with *paraguayensis* and *bruchii* as synonyms.

**Subgenus GRABHAMIA Theobald**

- cingulata** (Fabricius).—Guedes et al., 1965, 21, 22 ( $\delta^*$ ,  $\varphi^*$ ).  
*neoapicalis* Theobald.—Insert "; *Culex*" at end of second line, within parenthesis.  
**confinnis** (Lynch Arribáizaga).—Guedes et al., 1965, 23 ( $\delta^*$ ,  $\varphi^*$ ).  
 130. **dimidiata** Cerqueira.—Guedes et al., 1965, 23 ( $\delta^*$ ,  $\varphi^*$ ).  
**discolor** (Coquillett).—Change date from "1930" to "1903."  
**paulli** Paterson and Shannon.—Guedes et al., 1965, 18 ( $\varphi^*$ ).  
 131. **varinervis** Edwards.—Guedes et al., 1965, 24 ( $\delta^*$ ,  $\varphi^*$ ).

**Genus ERETMAPODITES Theobald**

135. **tonsus** Edwards.—Someren and Hamon, 1964, 82-84 (P\*, L\*)



Genus **AEDES** MeigenSubgenus **OCHLEROTATUS** Lynch Arribálzaga

137. *Aedes*, subgenus *Kompia* Aitken.—Transfer to p. 157 before Subgenus **FINLAYA** as valid subgenus.
138. **albifasciatus** (Macquart).—Ronderos and García 1962 (1963)a, 35 (P\*).
- angustivittatus** Dyar and Knab.—Ronderos and García, 1962 (1963)a, 37 (P\*).
- meprai* Martínez and Prosen.—Ronderos and García, 1962 (1963)b, 38 (syn.).
- antipodeus** (Edwards).—Marks and Nye, 1963, 50 (♂\*, ♀, P\*, L\*).
139. *praeteritus* Segúy.—Transfer to p. 150 as synonym of *pulchritarsis*.
141. *africanus* Neveu-Lemaire.—Change "*taeniorhynchus*" to "*Taeniorhynchus*."
142. *borealis* Ludlow.—Change "*Culex*" to "*Culex*."
- communis** (De Geer).
143. ssp. **nevadensis** Chapman and Barr.—Nevada.  
1964. Mosq. News 24: 444 (♂\*, ♀, P\*, L). Type loc: Lamoille Canyon, Elko Co., Utah, United States (USNM).
- patersoni* Shannon and Del Ponte.—Transfer to p. 150 as valid sp.
145. **explorator** Marks.—Australia.  
1964. Pap. Dep. Ent. Univ. Qd. 2: 60 (♀\*, L\*). Type-loc: Mt Olga, 300 mi. sw. of Alice Springs, Northern Territory, Australia (UQ).
146. **fryeri** (Theobald).—Mattingly, 1963, 165 (L\*).
147. **imperfectus** Dobrotworsky.—Australia.  
1962. Proc. Linn. Soc. N.S.W. 87: 296 (♂\*, ♀, P\*, L\*). Type-loc: Woori Yallock, Victoria, Australia (USNM).
148. **lasaensis** Meng.—China.  
1962. Acta ent. Sinica 11: 159 (♂\*, L\*). Type-loc: Lasa [Tibet, China] (LU).
- linesi** Marks.—Australia.  
1964. Pap. Dep. Ent. Univ. Qd. 2: 63 (♀). Type-loc: Robe, South Australia, Australia (CSIR).
- meprai** Martínez and Prosen.—Transfer to p. 138 as synonym of *angustivittatus*.
149. **mombasaensis** Mattingly.—Kenya.  
1963. Proc. R. ent. Soc. Lond. (B) 32: 165 (♂, ♀, L\*). Type-loc: Mombasa, Kenya (BM).
- nigrithorax** (Macquart).—Dobrotworsky, 1966, 135 (♀\*, L).
150. **patersoni** Shannon and Del Ponte.—Ronderos and García, 1962 (1963)a, 35 (P); (resurrected from syn.).
- phaecasiatus** Marks.—Australia.  
1964. Pap. Dep. Ent. Univ. Qd. 2: 64 (♀). Type-loc: 5 miles from Maningrida, Arnhem Land, Northern Territory, Australia (UQ).
- pulchritarsis** (Rondani).  
*praeteritus* Segúy.—Coluzzi, in litt. (syn.).
151. **purpureipes** Aitken.—Transfer to p. 157 under Subgenus **KOMPIA**.
153. *luteovittata* Theobald.—Insert after "*Culex*" "*nemorosus* var."
- sapiens** Marks.—Australia.  
1964. Pap. Dep. Ent. Univ. Qd. 2: 66 (♂\*, ♀\*). Type-loc: North Bourke, New South Wales, Australia (CSIR).
- mathisi* Neveu-Lemaire.—Change "French Guiana" to "Brazil."

154. **simanini** Gutsevich.—U.S.S.R. (Uzbekistan).  
1966. Zool. Zhur. 45: 457 (♂\*, ♀). Type-loc: Kokand, Fergana Valley, Uzbekistan (ZIL).  
*dorso-vittatus* Villeneuve.—Insert after "*Culex*", "*nemorosus* var."
155. **subalbirostris** Klein and Marks.—Marks and Nye, 1963, 56 (♂\*, ♀\*, P\*, L\*).
157. Insert **Subgenus KOMPIA** Aitken. Mattingly, 1961, 16 (returned to subgeneric status).  
**purpureipes** Aitken.—Insert from p. 151 under **Subgenus KOMPIA**.

#### Subgenus FINLAYA Theobald

165. **kompi** Vargas and Downs.—Arizona.
167. **mjoebergi** (Edwards).—Change to "*mjöbergi*."
168. **occidentalis** (Skuse).  
ssp. **milsoni** (Taylor).—Dobrotworsky, 1962, 301 (as sp.; P\*, L\*).
170. **shintiensis**.—Change "Lein" to "Lien."
171. **sorsogonensis** Bañez and Jueco.—Philippines.  
1966. Acta med. Philippina 2(4): 195 (♂\*, ♀\*, L\*). Type-loc: Sorsogon Province, [Luzon] (IHP).  
**stanleyi** Peters.—New Guinea.  
1963. Proc. R. ent. Soc. Lond. (B) 32: 1 (♂, ♀, P\*, L\*). Type-loc: Minj, Western Highlands District, New Guinea (CSIR).  
**subbasalis** Dobrotworsky.—Australia.  
1962. Proc. Linn. Soc. N.S.W. 87: 298 (♂\*, ♀, P\*, L\*). Type-loc: Ginninderra Falls, New South Wales, Australia (CSIR).
172. **tutuila** Ramalingam and Belkin.—Samoa.  
1965. Contr. Amer. ent. Inst. 1(4): 3 (♂\*, ♀, P\*, L\*). Type-loc: Aoloua, Tutuila, American Samoa (USNM).

#### Subgenus HOWARDINA Theobald

173. **allotecnon** Kumm, Komp and Ruiz.—Add to type-locality, "Poás Volcano."  
**arborealis** Bonne-Wepster and Bonne.—Change "USNM" to "ITH."  
**aurivittatus** Cerqueira.—Martínez, Prosen and Carcavallo, 1964, 54 (♂\*).
- cozumelensis** Díaz Nájera.—Mexico.  
1966. Rev. Invest. Salud. publ. (Mex.) 26: 334 (♂\*, ♀\*, P\*, L\*).  
Type-loc: San Miguel de Cozumel, Quintana Roo, Mexico (ISET).

#### Subgenus CHAETOCRUIOMYIA Theobald

175. **calabyi** Marks.—Marks, 1964, 132 (♀).  
**elchoensis** Taylor.—Marks, 1964, 134 (♂\*, ♀, P\*, L\*).
- macmillani** Marks.—Australia.  
1964. Proc. Linn. Soc. N.S.W. 89: 138 (♂\*, ♀\*). Type-loc: N.W. Dungog, Gummi Plain, Barrington Area, New South Wales (US).
- spinosipes** Edwards.—Marks, 1964, 142 (♀, E\*).

#### Subgenus HALAEDES Belkin

176. **australis** (Erichson).—New Zealand.

Subgenus **GEOSKUSEA** Edwards

177. **tonsus** Edwards.—Mattingly, 1965, 23 (♂\*). Delete “? Celebes.”

Subgenus **STEGOMYIA** Theobald

180. **albopictus** (Skuse).—Restore New Guinea, deleted in Suppl. I.  
 181. **arboricolus** Knight and Rozeboom.—Change to **arboricola**.  
 182. **bambusicolus** Knight and Rozeboom.—Change to **bambusicola**.  
 183. Supplement II. *montana* Koidzumi. Change reference given to:  
     “1918. Trans. nat. Hist. Soc. Formosa 38: 141 (♂;  
     *Stegomyia*). Type-loc: Chikutoki, Kagi District, Formosa  
     (LU).”  
**gardnerii** (Ludlow).  
     ssp. **imitator** (Leicester).—Malaya, Nepal, S. China. Mattingly,  
     1965, 36 (resurrected from synonymy; syn.).  
     *christianus* Dyar.  
 184. **hensilli** Farner.—Transfer to p. 187 as ssp. of *scutellaris*.  
**laffooni** Knight and Rozeboom.—Knight and Hull, 1951, 221 (L).  
 186. **paullusi** Stone and Farner.—North Borneo.  
 187. **scutellaris** (Walker).—Delete Philippines. Colless, 1962, 313 (♂\*,  
     taxon).  
     ssp. **hensilli** Farner.—Delete Singapore of Suppl. I. Colless, 1962,  
     314 (to ssp. status).  
     ssp. **malayensis** Colless.—Singapore, Malaya, Philippines.  
     1962. Proc. Linn. Soc. N.S.W. 87: 314 (♂\*, ♀). Type-  
     loc: Pulau Hantu, Keppel Harbor, Singapore (CSIR).  
 188. **tabu** Ramalingam and Belkin.—Tonga Islands.  
     1965. Contr. Amer. ent. Inst. 1(4): 1 (♂\*, ♀, P\*, L). Type-loc:  
     Eua Island, Tonga (USNM).  
**usambara** Mattingly.—Someren and Hamon, 1964, 80 (P\*).  
**vinsoni** Mattingly.—Mattingly, 1963, 168 (♀).  
 189. *imitator* Leicester.—Transfer to p. 183 as ssp. of *gardnerii*.  
*christianus* Dyar.—Transfer to p. 183 as synonym of *gardnerii imitator*.

Subgenus **AEDIMORPHUS** Theobald

190. **albocephalus** Theobald.—Change reference to “Mem. Lpool Sch.  
     trop. Med. 10(App.): 4.  
**arabiensis** (Patton).—Transfer with synonym to p. 198 as synonym  
     of *vexans* (Meigen).  
 192. **dialloi** Hamon and Brengues.—Dahomey.  
     1965. Bull. Soc. Path. exot. 58: 103 (♂\*). Type-loc: Tchakarkou,  
     Natitingou Prefecture, Dahomey (IERT).  
**ebogoensis** Rickenbach and Ferrara.—Cameroon.  
     1966. Bull. Soc. Path. exot. 58: 26 (♂\*). Type-loc: Ebogo,  
     Cameroon (IERT).  
**hamoni** Mattingly.—Nigeria.  
     1963. Proc. R. ent. Soc. Lond. (B) 32: 166 (♂\*, ♀\*). Type-  
     loc: Akute Village, Ogun River, near Iju waterworks, S. Nigeria  
     (BM).  
 194. **lottei** Hamon and Brengues.—Ivory Coast.  
     1965. Bull. Soc. Path. exot. 58: 101 (♂\*). Type-loc: Tiassalé,  
     Ivory Coast (IERT).

195. **niveoscutellum** (Theobald).—Delete asterisk after “ $\delta$ .”  
**nocturnus** Theobald.—Hawaii. Correction to Suppl. II. Change “125” to “195.”  
**nyounae** Hamon and Adam.—Bregues and Hamon, 1965, 92 (P\*, L\* ).  
 196. **rickenbachi** Hamon and Adam.—Rickenbach and Ferrara, 1964, 972, (L\*, P\* ).  
 198. **tauffliebi** Rickenbach and Ferrara.—Cameroon.  
 1965. Bull. Soc. Path. exot. 58: 24 ( $\delta$  \*). Type-loc: Mbéga, Dept. Dyong and Sanaga, Cameroon (IERT).  
**vexans** (Meigen).—Hamon et al., 1966, 373 (syn.).  
*arabiensis* Patton.—Insert in synonymy after *montcalmi*.  
*sudanensis* Theobald.—Insert in synonymy after *eruthrosops*.

#### Subgenus NEOMELANOCONION Newstead

200. Supplement II. Le Berre and Hamon reference inadvertently left out of “Literature Cited.” See that section in this Supplement.  
**aurovenatus** Worth.—Supplement I. Change type locality from “Nduma” to “Ndumu.”  
 201. **palpalis** (Newstead).—Gambia.  
**taeniarostris** (Theobald).—Bailly-Choumara, 1965 (1966), 671 (P\*, L\* ).

#### Subgenus DICEROMYIA Theobald

202. **periskelatus** (Giles).—Qutubuddin, 1945, 34 ( $\varnothing$  ).  
 203. **whartoni** Mattingly.—Malaya.  
 1965. Culic. Mosq. Indomalayan Area VI: 65 ( $\delta$  \*, P\*, L\* ).  
 Type-loc: Ulu Gombak, Malaya (BM).

#### Subgenus AEDES Meigen

207. **nubicolus** Laffoon.—Change to **nubicola**.  
 209. **uncus** (Theobald).—Knight and Hull, 1951, 222 (L).

#### Subgenus CANCRAEDES Edwards

210. *miachaetessa* Dyar and Shannon.—Change “1935” to “1925.”  
*lateralis* Theobald.—Change “1919” to “1818.”

#### Genus ARMIGERES Theobald

##### Subgenus ARMIGERES Theobald

212. **baisasi** Stone and Thurman.—Baisas 1935, 488 ( $\delta$  \*,  $\varnothing$  ; as *kuchingensis*); Delfinado, 1966, 80 ( $\delta$  \*,  $\varnothing$  , P\*, L\* ).  
 213. **kuchingensis** Edwards.—Transfer Baisas’s 1935b reference to *baisasi* Stone and Thurman.  
**malayi** (Theobald).—Philippines.  
**manalangi** Baisas.—Delfinado, 1966, 86 ( $\delta$  \*,  $\varnothing$  , P\*, L\* ).  
**papuensis** Peters.—New Guinea.  
 1963. Proc. R. ent. Soc. Lond. (B) 32: 4 ( $\delta$  \*,  $\varnothing$  \*, P\*, L\* ).  
 Type-loc: Maprik, Sepik District, New Guinea (BM).  
**setifer** Delfinado.—Philippines.  
 1966. Mem. Amer. ent. Inst. 7: 87 ( $\delta$  \*,  $\varnothing$  \*). Type-loc: Pinigisan, Mantalingajan, Palawan, Philippines (ZMC).

Subgenus **LEICESTERIA** Theobald

214. **digitatus** Edwards.—Delfinado, 1966, 88 ( $\delta^*$ ,  $\varphi$ , P\*, L\*).  
**flavus** Leicester.—Delfinado, 1966, 89 ( $\delta^*$ ,  $\varphi$ , P\*, L\*).  
**magnus** (Theobald).—Delfinado, 1966, 91 ( $\delta^*$ ,  $\varphi$ , P\*, L\*).  
 215. **omissus** (Edwards).—Delfinado, 1966, 92 ( $\delta^*$ ,  $\varphi$ , P\*, L\*).

Genus **CULISETA** Felt

218. *Important references*: 1963, Barr, 324-330 (key pupae, Nearctic); 1964, Maslov, Ent. Obozr. 43: 193-217 (Ent. Rev. : 97-107) (taxonomy).

Subgenus **CULISETA** Felt

- alaskaensis** (Ludlow).—Barr, 1963, 328 (P\*).  
 ssp. **indica** (Edwards).—India, Pakistan. Maslov, 1964, 203 (100) (to ssp. status).  
**annulata** (Schrank).  
 ssp. **subochrea** (Edwards).—Maslov, 1964, 204 (100) (to ssp. status).  
**atlantica** (Edwards).—Insert from p. 222.  
 219. **zottae** (Ungureanu).—Change from ssp. to syn.  
**impatiens** (Walker).—Barr, 1963, 329 (P).  
**incidens** (Thomson).—Barr, 1963, 328 (P\*).  
**particeps** (Adams).—Barr, 1963, 328 (P\*).  
**sinensis** (Meng and Wu).—China.  
 1962. Acta ent. Sinica 11: 382 ( $\delta^*$ ,  $\varphi$ , P, L\*; *Theobaldia*).  
 Type-loc: China (LU).  
 220. **subochrea** (Edwards).—Transfer with its synonym to p. 218 as ssp. of *annulata* (Schrank).

Subgenus **CULICELLA** Felt

- atra** Lee.—Insert from p. 222.  
**minnesotae** Barr.—Transfer to p. 221 as ssp. of *silvestris* (Shingarev).  
**morsitans** (Theobald).—Delete northern North America.  
 ssp. **dyari** (Coquillett).—Northern North America. Maslov, 1964, 209 (103) (to ssp. status).  
*brittoni* Felt.  
 221. **ochroptera** (Peus).—Place as ssp. of *silvestris* (Shingarev).  
**silvestris** (Shingarev).  
 ssp. **ochroptera** (Peus).—Maslov, 1964, 209 (103) (to ssp. status).  
 ssp. **minnesotae** Barr.—Maslov, 1964, 209 (103) (to ssp. status).  
 ssp. **amurensis** Maslov.—China.  
 1964. Ent. Obozr. 43: 210 ( $\delta^*$ ,  $\varphi$ , L). Type-loc: Central Amur Region, Ussuri Basin, Southern Maritime Province, Northeast China (LU).

Subgenus **CLIMACURA** Howard, Dyar and Knab

- antipodea** Dobrotworsky.—Australia.  
 1962. Proc. Linn. Soc. N.S.W. 87: 291 ( $\delta^*$ ,  $\varphi$ , P\*, L\*). Type-loc: Cann River, Victoria (NMM).  
**melanura** (Coquillett).—Barr, 1963, 327 (P\*).  
**weindorferi** (Edwards).—Dobrotworsky, 1966, 143 ( $\delta^*$ ,  $\varphi$ , P\*, L\*).

**Subgenus ALLOTHEOBALDIA Brolemann**

**indica** (Edwards).—Transfer to p. 218 as ssp. of *alaskaensis* (Ludlow).

**Subgenus Uncertain**

222. **atlantica** (Edwards).—Transfer to p. 218 in subgenus *Culiseta*.  
**atra** Lee.—Transfer to p. 220 in subgenus *Culicella*.

**Genus CULEX Linnaeus****Subgenus LUTZIA Theobald**

223. **fuscus** Wiedemann.—Delfinado, 1966, 97 ( $\delta^*$ ,  $\varphi$ ,  $P^*$ ,  $L^*$ ).  
*setulosus* Doleschall.—Change "1875" to "1857."  
 224. **bimaculata** Theobald.—Insert after " $\varphi$ " "as var."  
*fusca* Theobald.—Insert after "A" "as var."

**Subgenus NEOCULEX Dyar**

225. **amaniensis** Someren and Hamon.—Tanzania.  
 1964. J. ent. Soc. S. Afr. 27: 78 ( $\delta^*$ ,  $\varphi^*$ ). Type-loc: Amani, Tanganyika (BM).  
 226. **brevipalpis** (Giles).—Delfinado, 1966, 125 ( $\delta^*$ ,  $\varphi$ ,  $P^*$ ,  $L^*$ ).  
 227. **garioui** Bailly-Choumara and Rickenbach.—Cameroon.  
 1966. Bull. Soc. Path. exot. 59: 144 ( $\delta^*$ ). Type-loc: Mbol, Yokadouma, E. Cameroon (IERT).  
 228. **laplantei** (Hamon, Adam and Mouchet).—Change "Eboga" to "Ebogo."  
**nematoides** Dyar and Shannon.—Insert " $\varphi$ ."  
**pseudoandreas** Bailly-Choumara.—Cameroon.  
 1965 (1966). Bull. Soc. Path. exot. 58: 660 ( $\delta^*$ ). Type-loc: Ebogo, Arrondissement de Mbalmayo, 100 km. s. of Yacundé, Cameroon (IERT); Bailly-Choumara and Pajot, 1965 (1966): 665 ( $P^*$ ,  $L^*$ ).  
 229. **capensis** De Meillon.—Insert after " $\varphi$ " "as var."

**Subgenus MOCHTHOGENES Edwards**

231. **chiyutoi** Baisas.—Delfinado, 1966, 129 ( $\delta^*$ ,  $P$ ,  $L$ ).  
**culionicus** Delfinado.—Philippines.  
 1966. Mem. Amer. ent. Inst. 7: 130 ( $\delta^*$ ,  $\varphi$ ). Type-loc: San Pedro, Culion I., Palawan, Philippines (USNM).  
**latifolius** Delfinado.—Philippines.  
 1966. Mem. Amer. ent. Inst. 7: 131 ( $\delta^*$ ,  $\varphi$ ). Type-loc: Molawin Creek, College, Laguna, Philippines (USNM).  
**laureli** Baisas.—Philippines. Delfinado, 1966, 132 ( $\delta^*$ ,  $\varphi$ ,  $P^*$ ,  $L^*$ ; resurrected from synonymy).  
**malayi** (Leicester).—Delete Philippines and remove *laureli* from synonymy.  
**shrivastavii** Wattal, Kalra and Krishnan.—Andaman Islands.  
 1966. Bul. Ind. Soc. Mal. Com. Dis. 3: 159 ( $\delta^*$ ). Type-loc: Ferrar Ganj, S. Andaman Islands (NCID).  
 232. **tricontus** Delfinado.—Philippines.  
 1966. Mem. Amer. ent. Inst. 7: 133 ( $\delta^*$ ). Type-loc: Molawin Creek, College, Laguna, Philippines (USNM).



**uncinatus** Delfinado.—Philippines.

1966. Mem. Amer. ent. Inst. 7: 134 ( $\delta^*$ ,  $\varphi$ ). Type-loc: Osmena, Samar (USNM).

### Subgenus **LOPHOCERAOMYIA** Theobald

*Important reference:* 1965, Colless, 216-307 (Malaya, keys).

**aculeatus** Colless.—Malaya.

1965. J. med. Ent. 2: 286 ( $\delta^*$ ,  $\varphi$ , L\*). Type-loc: Bukit Tungal, Kg. Gajan Forest Reserve, Perak, Malaya (ANIC).

**acutipalus** Colless.—Malaya.

1965. J. med. Ent. 2: 299 ( $\delta^*$ ,  $\varphi$ , L). Type-loc: Kg. Chantek Bahru, Singapore (ANIC).

**alplus** Colless.—Malaya, Borneo.

1965. J. med. Ent. 2: 283 ( $\delta^*$ ,  $\varphi$ , L\*). Type-loc: Kg-Sijangkang, Selangor, Malaya (ANIC).

**atracus** Colless.—Change "BM" to "CSIR."

**christiani** Colless.—Change "BM" to "CSIR."

**bandoengensis** Brug.—Java, Malaya. Colless, 1965: 292 ( $\delta^*$ ,  $\varphi$ , L; to sp. status).

**bengalensis** Barraud.—India, Malaya, Hainan I. Colless, 1965, 293 ( $\delta^*$ ,  $\varphi$ , L\*; to sp. status).

**bicornutus** (Theobald).—Burma, Malaya, Botel Tobagu (nr. Formosa). Colless, 1965, 291 ( $\delta^*$ , L\*; resurrected from syn.).

**brevipalpus** (Theobald).—Stone, 1957, 172 (resurrected from syn.); Colless, 1965, 301 ( $\delta^*$ ,  $\varphi$ , L).

**cinetellus** Edwards.—Philippines.

**crassicornis** Colless.—Malaya.

1965. J. med. Ent. 2: 296 ( $\delta^*$ ). Type-loc: Ulu Gombak, Selangor Malaya (ANIC).

**cubitatus** Colless.—Malaya.

1965. J. med. Ent. 2: 273 ( $\delta^*$ ,  $\varphi$ , L). Type-loc: Mandai Road, Singapore (ANIC).

**curtipalpis** (Edwards).—Edwards, 1928, 279 ( $\delta^*$ ); Colless, 1965, 301 ( $\delta^*$ ,  $\varphi$ , L).

**demissus** Colless.—Malaya.

1965. J. med. Ent. 2: 296 ( $\delta^*$ ). Type-loc: Ulu Gombak, Selangor, Malaya (ANIC).

233. **eminentia** (Leicester).—Colless, 1965, 298 ( $\delta^*$ , L).

**brevipalpus** Theobald.—Transfer to p. 232 as valid species.

**eukrines** Bram and Rattanakul.—Thailand.

1967. Proc. ent. Soc. Wash. 69: 11 ( $\delta^*$ ,  $\varphi$ , L\*). Type-loc: Huai Bong Ti, Kanchanaburi Province, Thailand (USNM).

**variata** Leicester.—Change "NE" to "BM." Transfer to p. 235 as valid species.

**fuscosphonius** Bram and Rattanakul.—Thailand.

1967. Proc. ent. Soc. Washington 69: 11 ( $\delta^*$ ,  $\varphi$ , L\*). Type-loc: Muang, Phattalung Province, Thailand (USNM).

**ganapathi** Colless.—Malaya.

1965. J. med. Ent. 2: 294 ( $\delta^*$ ,  $\varphi$ , L\*). Type-loc: Ulu Langat, Selangor, Malaya (ANIC).

**gibbulus** Delfinado.—Philippines.

1966. Mem. Amer. ent. Inst. 7: 105 ( $\delta^*$ ). Type-loc: San Jose, Mindoro, Philippines (USNM).

- hewitti** (Edwards).—Colless, 1965, 303 ( $\delta^*$ ,  $\varphi$ , L).  
**incomptus** Bram and Rattanaarithikul.—Thailand.  
 1967. Proc. ent. Soc. Wash. 69: 16 ( $\delta^*$ ,  $\varphi$ ). Type-loc: Doi Sutep, Chiang Mai Province, Thailand (USNM).  
**inculus** Colless.—Malaya.  
 1965. J. med. Ent. 2: 280 ( $\delta^*$ ,  $\varphi$ , L\*). Type-loc: Kampong Sireh, Selangor, Malaya (ANIC).  
*josephinae* Baisas.—Change to *josephineae* and transfer to p. 234 as valid species.  
 234. **josephineae** Baisas.—Philippines. Delfinado, 1966, 106 ( $\delta^*$ ; resurrected from synonymy).  
**lucaris** Colless.—Malaya.  
 1965. J. med. Ent. 2: 299 ( $\delta^*$ ). Type-loc: Ulu Pandan, Singapore (ANIC).  
*bicornuta* Theobald.—Transfer to p. 232 as valid species.  
**macdonaldi** Colless.—Malaya, Philippines.  
 1965. J. med. Ent. 2: 276 ( $\delta^*$ , L\*). Type-loc: Singapore (ANIC); Delfinado, 1966, 108 ( $\delta^*$ , P\*, L\*).  
**mammilifer** (Leicester).—Hainan I. Colless, 1965, 287 ( $\delta^*$ ,  $\varphi$ , L\*; syn.); Delfinado, 1966, 109 ( $\delta^*$ , P\*, L\*).  
*chiungchungensis* Hsü.—1963. Acta ent. Sinica 12: 229 ( $\delta^*$ ,  $\varphi$ , L\*). Type-loc: Chiungchungsang, Hainan Island, Kwangtung Province, China (LU).  
**minor** (Leicester).—Colless, 1965, 289 ( $\delta^*$ ,  $\varphi$ , L\*; syn.).  
*nolledoi* Baisas.  
 var. **bengalensis** Barraud.—Transfer to p. 232 as full species.  
 var. **bandoengensis** Brug.—Transfer to p. 232 as full species.  
 235. **navalis** Edwards.—Malaya. Colless, 1965, 304 ( $\delta^*$ ,  $\varphi$ , L).  
**niger** (Leicester).—Colless, 1965, 282 ( $\delta^*$ ,  $\varphi$ , L).  
*nolledoi* Baisas.—Transfer to p. 234 as synonym of *minor* (Leicester).  
**petersi** Colless.—Change "BM" to "CSIR."  
**pseudornatus** Colless.—Change "BM" to "CSIR."  
**peytoni** Bram and Rattanaarithikul.—Thailand.  
 1967. Proc. ent. Soc. Wash. 69: 7 ( $\delta^*$ ,  $\varphi$ , L\*). Type-loc: Phatthalung-Trang Road, Phatthalung Province, Thailand (USNM).  
**pholeter** Bram and Rattanaarithikul.—Thailand.  
 1967. Proc. ent. Soc. Wash. 69: 13 ( $\delta^*$ ,  $\varphi$ , L\*). Type-loc: Khao Mai Ha Wa, Chon Buri Province, Thailand (USNM).  
**reidi** Colless.—Malaya, Philippines.  
 1965. J. med. Ent. 2: 279 ( $\delta^*$ ,  $\varphi$ , L\*). Type-loc: West Coast Road, Singapore (ANIC).  
**spiculosus** Bram and Rattanaarithikul.—Thailand.  
 1967. Proc. ent. Soc. Wash. 69: 3 ( $\delta^*$ ,  $\varphi$ , L\*). Type-loc: Doi Sam Sao, Tak Province, Thailand (USNM).  
**traubi** Colless.—Malaya.  
 1965. J. med. Ent. 2: 295 ( $\delta^*$ ,  $\varphi$ , L\*). Type-loc: Ulu Gombak, 16th mile, Selangor, Malaya (ANIC).  
**uniformis** (Theobald).—Philippines.  
**variatus** (Leicester).—Colless, 1965, 270 ( $\delta^*$ ,  $\varphi$ , L\*; resurrected from synonymy).  
**whartoni** Colless.—Malaya.  
 1965. J. med. Ent. 2: 275 ( $\delta^*$ ,  $\varphi$ , L\*). Type-loc: Singapore (ANIC).

**wilfredi** Colless.—Malaya.

1965. J. med. Ent. 2: 297 ( $\delta^*$ ). Type-loc: Malaya (ANIC).

#### Subgenus CULICIOMYIA Theobald

238. **pallidothorax** Theobald.—Philippines.

**papuensis** (Taylor).—Philippines.

**ramakrishnii** Wattal and Kalra.<sup>2</sup>—India.

1965. Bull. Ind. Soc. Mal. Com. Dis. 2: 309 ( $\delta^*$ ,  $\varphi$ ). Type-loc: Lachhiwala Reserve Forest, Dehra Dun, India (NICD).

**spathifurea** (Edwards).—Delfinado, 1966, 123 ( $\delta^*$ ,  $\varphi$ , P, L\*).

#### Subgenus THAIOMYIA Bram

239. **Culex**, subgenus **Thaiomyia** Bram, 1966, Proc. ent. Soc. Wash. 68: 73. Orthotype: *Culex dispectus* Bram.

**dispectus** Bram.—Thailand.

1966. Proc. ent. Soc. Wash. 68: 75 ( $\delta^*$ ,  $\varphi$ , P\*, L\*). Type-loc: Doi Sam Sao, Tak Province, Thailand (USNM).

#### Subgenus CULEX Linnaeus

*Important reference:* 1967, Bram, 1-222 (keys, New World).

*Lasioconops* Theobald.—Change reference to Mem. Lpool Sch. trop. Med. 10 (App.): 8.

240. **abnormalis** Lane.—Colombia. Bram, 1967, 20 ( $\delta^*$ ,  $\varphi$ , L; syn.).  
*scutatus* Rozeboom and Komp.

**acharistus** Root.—Argentina, Chile. Bram, 1967, 23 ( $\delta^*$ , L\*).

**alani** Forattini.—Colombia.

1965. Entomologica Médica 2: 143 ( $\delta^*$ ). Type-loc: Cateria a Gachancipa, Colombia (USNM); Bram, 1967, 23 ( $\delta^*$ ).

**alticola** Martini.—Transfer to p. 242 as synonym of *apicinus* Philippi.

**annulirostris** Skuse.—Delfinado, 1966, 139 ( $\delta^*$ ,  $\varphi$ , L\*; syn.).  
*palmi* Baisas.

241. **gambiensis** Theobald.—Insert “; as var.” after “( $\varphi$ ).”

242. **apicinus** Philippi.—Bolivia. Bram, 1967, 26 ( $\delta^*$ ,  $\varphi$ , L; syn.).  
*alticola* Martini.

**archegus** Dyar.—Peru, Colombia, Ecuador. Bram, 1967, 28 ( $\delta^*$ , L; resurrected from syn.). Place before *argenteopunctatus*.

**articularis** Philippi.—Type-loc: Casa Pangue, Llanquihue, Chile (USNM). Bram, 1967, 30 ( $\delta^*$ ; neotype).

243. **azuayus** Levi Castillo.—Transfer to p. 252 as synonym of *nigripalpus* Theobald.

**beauperthuyi** Anduze.—Transfer to p. 259 as synonym of *saltanensis* Dyar.

**bickleyi** Forattini.—Colombia.

1965. Entomologia Médica 2: 146 ( $\delta^*$ ). Type-loc: Bosque Calderon, Bogota, Colombia (USNM); Bram, 1967, 33 ( $\delta^*$ ).

**bidens** Dyar.—Argentina, Bolivia, Mexico, Venezuela. Bram, 1967, 35 ( $\delta^*$ ; resurrected from syn., syn.).

*interfor* Dyar.

<sup>2</sup> Under Article 31 of the International Code of Zoological Nomenclature this name is presumably not emendable; under the old Code it would have to be changed to *ramakrishnani*, as the species is named after Dr. Ramakrishnan.

244. **brethesi** Dyar.—Bachmann and Casal, 1962, 78 ( $\delta^*$ , P\*, L\*).  
**camposi** Dyar.—Colombia, Ecuador, Peru. Bram, 1967, 49 ( $\delta^*$ ; raised to sp. status).  
**cheni** Ho.—China.  
 1963. Acta ent. Sinica 12: 368 ( $\delta^*$ , ♀, L\*). Type-loc: Canton, China (CMC).  
**chidesterei** Dyar.—Argentina. Bram, 1967, 42 ( $\delta^*$ , L; syn.).  
*deanei* Correa and Ramalho.  
**confusus** Baisas.—Transfer to p. 251 as synonym of *mimulus* Edwards.  
 245. **coronator** Dyar and Knab.—Bram, 1967, 46 ( $\delta^*$ , L; syn.).  
*coronator mooseri* Vargas and Martinez Palacios.  
*ousqua* Dyar.—Transfer to p. 253 as valid species.  
*usquatus* Dyar.—Transfer to p. 264 as valid species.  
*usquatissimus* Dyar.—Transfer to p. 264 as valid species.  
*albertoi* Anduze.—Transfer to p. 253 as synonym of *ousqua* Dyar.  
 ssp. **camposi** Dyar.—Transfer to p. 244 as valid species.  
 ssp. **mooseri** Vargas and Martinez Palacios.—Change to synonym.  
**covagarciai** Forattini.—Venezuela.  
 1965. Entomologia Médica 2: 128 ( $\delta$ ). Type-loc: San Antonio de Caparo, Municipal Capitol, Venezuela (USNM); Bram, 1967, 53 ( $\delta^*$ , L).  
*deanei* Correa and Ramalho.—Transfer to p. 244 as synonym of *chidesterei* Dyar.  
**declarator** Dyar and Knab.—Bram, 1967, 56 ( $\delta^*$ , L; syn.).  
*forattinii* Correa and Ramalho.  
 246. *bidens* Dyar.—Transfer to p. 243 as valid species.  
 247. **fasyi** Baisas.—Change “[Davao], Mindanao” to “[Mountain], Luzon.”  
**fernandezi** Casal, García and Cavalieri.—Argentina.  
 1966. Physis 26: 185 ( $\delta^*$ , ♀, P\*, L\*). Type-loc: Quebrada de Piquirenda, Salta, Argentina (INM).  
*forattinii* Correa and Ramalho.—Transfer to p. 245 as synonym of *declarator* Dyar and Knab.  
 248. **gameti** Bailly-Choumara.—Cameroon.  
 1966. Bull. Soc. Path. exot. 59: 148 ( $\delta^*$ ). Type-loc: Mbol, Yokadouma, E. Cameroon (IERT).  
 249. **habilitator** Dyar and Knab.—Peru.  
**incognitus** Baisas.—Delfinado, 1966, 145 ( $\delta^*$ , ♀, P, L\*).  
**interfor** Dyar.—Transfer to p. 243 as synonym of *bidens* Dyar.  
 250. **keseli** Belkin.—Belkin, 1964, 236 ( $\delta^*$ , ♀, P\*).  
**lahillei**.—Correction to Suppl. II. Change “Casals” to “Casal”; also index, p. 140.  
**levicastilloi** Lane.—Venezuela. Bram, 1967, 74 ( $\delta^*$ , L; syn.).  
*tejerai* Cova Garcia.—1962. Rev. Sanid. Asist. Soc. 27: 312 ( $\delta^*$ , ♀, P\*, L\*). Type-loc: Near La Cumbre de Choroni, Aragua, Venezuela (DERM).  
 251. **mimulus** Edwards.—Delfinado, 1966, 150 ( $\delta^*$ , ♀; syn.).  
*confusus* Baisas.  
**mollis** Dyar and Knab.—Bram, 1967, 80 ( $\delta^*$ , L; syn.).  
*tisseuili* Senevet.  
 252. **nigripalpus** Theobald.—Bram, 1967, 84 ( $\delta^*$ , L; syn.).  
*azuayus* Levi-Castillo.

**oswaldoi** Forattini.—Brazil.

1965. *Entomologia Médica* 2: 167 ( $\delta^*$ ). Type-loc: Macapá, Natal, Brazil (USNM); Bram, 1967, 86 ( $\delta^*$ ).

253. **ousqua** Dyar.—Mexico to Colombia. Bram, 1967, 50 ( $\delta^*$ ; resurrected from syn.; syn.).

*albertoi* Anduze.

**palmi** Baisas.—Transfer to p. 241 as synonym of *annulirostris* Skuse.

254. ssp. **quinquefasciatus** Say.—Restore to this status.

*trifurcatus* Fabricius.—Delete "*fatigans* ssp."

258. **pseudovishnui** Colless.—Delfinado, 1966, 147 (P, L\*).

**quinquefasciatus** Say.—Return to p. 254 as ssp. (see Suppl. II).

259. **salinus** Baisas.—Transfer to p. 260 as synonym of *sitiens* Wiedemann.

**saltanensis** Dyar.—Brazil, Panama, Venezuela. Bram, 1967, 97 ( $\delta^*$ , L; syn.).

*beauperthuyi* Anduze.

**scutatus** Rozeboom and Komp.—Transfer to p. 242 as synonym of *abnormalis* Lane.

**sitiens** Wiedemann.—Delfinado, 1966, 151 ( $\delta^*$ , ♀, L\*; syn.).

*salinus* Baisas.

260. **spinosus** Lutz.—Colombia, Venezuela.

261. **suborientalis** Baisas.—Change "[Davao], Mindanao" to "[Mountain], Luzon."

262. **thriambus** Dyar.—Dominican Republic, Costa Rica, Colombia.

**tisseuilli** Senevet.—Emended by Belkin, 1965, 24 to *tisseuili*. Transfer to p. 251 as synonym of *mollis* Dyar and Knab.

263. *siamensis* Barraud and Christophers.—Insert "; as var." after " $\delta$ ."

264. **usquatissimus** Dyar.—Costa Rica to Ecuador and British Guiana. Bram, 1967, 51 ( $\delta^*$ ; resurrected from synonymy).

**usquatus** Dyar.—Mexico to Argentina. Bram, 1967, 49 ( $\delta^*$ ).

#### Subgenus MELANOCONION Theobald

266. *ocossa* Dyar and Knab.—Change "Surinam" to "British Guiana."

268. **clarki** Evans.—Argentina. Casal, 1963, 317 ( $\delta^*$ ; resurrected from syn.).

269. **castor** Dyar.—Trinidad.

271. **implicatus** Senevet and Abonnenc.—Transfer to p. 273 as synonym of *nigrescens*.

273. **nigrescens** (Theobald).—Casal, 1963, 317 ( $\delta^*$ ).

*implicatus* Senevet and Abonnenc.

*clarki* Evans.—Transfer to p. 268 as valid species.

**oedipus** Root.—García and Casal, 1965, 9 (P\*).

274. **portesi** Senevet and Abonnenc.—French Guiana, Trinidad, Brazil. Aitken and Galindo, 1966, 202 ( $\delta^*$ , ♀; resurrected).

*cayennensis* Floch and Abonnenc.

275. **rabanicolus** Floch and Abonnenc.—Change to **rabanicola**.

276. *portesi* Senevet and Abonnenc.—Transfer to p. 274 as valid species.

**cayennensis** Floch and Abonnenc.—Change "PIC" to "NE"; transfer to p. 274 as synonym of *portesi*.

**ybarmis** Dyar.—Trinidad.

**zeteki** Dyar.—Trinidad.

#### Subgenus MICROCULEX Theobald

278. *Important reference*: 1962, Coutinho and Forattini, 209-234.

279. **intermedius** Lane and Whitman.—Coutinho and Forattini, 1962, 217 ( $\delta^*$ ,  $\varphi$ ,  $P^*$ ,  $L^*$ ).
280. **lanei** Coutinho and Forattini.—Brazil.  
1962. *Studia ent.* 5: 210 ( $\delta^*$ ,  $\varphi$ ,  $P^*$ ,  $L^*$ ). Type-loc: Bertioga (Itaguapé), Santos, São Paulo, Brazil (FH).
- pleuristriatus** Theobald.—Coutinho and Forattini, 1962, 223 ( $\delta^*$ ,  $P^*$ ,  $L^*$ ).
- shopei** Forattini and Toda.—Brazil.  
1966. *Studia ent.* 9: 507 ( $\delta^*$ ,  $\varphi^*$ ,  $P^*$ ,  $L^*$ ). Type-loc: Utinga, Belem, Para, Brazil (FH).
- xenophobus** Ronderos.—Venezuela.  
1965. *Physis* 25: 249 ( $\delta^*$ ,  $\varphi^*$ ,  $P^*$ ,  $L^*$ ). Type-loc: San Bonifacio, Sucre, Venezuela (INM).

#### Subgenus AEDINUS Bourroul

281. **americanus** (Neveu-Lemaire).—Transfer to p. 283 as a *nomen dubium*. Change French Guiana to Brazil.
- bisculatus** Coquillett.—Trinidad, Antilles. Transfer to follow *belemensis* as a valid species with *antillum-magnorum* of authors as a synonym.
- canaanensis** Lane and Whitman.—Change “1934” to “1943.”
- cauchensis** Floch and Abonnenc.—Change “Moyenne-Mana” to “Caux.”

#### Subgenus CARROLLIA Lutz

282. **bihaicolus** Dyar and Nuñez Tovar.—Change to **bihaicola**.

#### Nomina Dubia

283. **americanus** (Neveu-Lemaire).—French Guiana. Fauran, 1961, 45 (taxon.).

#### Genus DEINOCERITES Theobald

285. **pseudes** Dyar and Knab.—Texas.

#### Fossil Species

286. **loewi** Giebel.—Place “Giebel” in parentheses; change “**Culex**” to “**Toxorhynchites**”; insert “**Culex**” after “A”; change “LU” to “NMC.”

#### Literature Cited

289. **Adam, Bruce-Chwatt, and Hamon.** 1956. (See Catalog.)
- Adam, Hamon, Rickenbach, and Lips.** 1956. (See Catalog.)
- Aitken, T. H. C. and P. Galindo.** 1966. On the identity of *Culex* (*Melanoconion*) *portesi* Senevet and Abonnenc 1941 (Diptera: Culicidae). *Proc. ent. Soc. Wash.* 68: 198-208, illus.
- Aken** (Supplement II.) Change “onderzbek” to “onderzoek.”
290. **Arab, B. Al-Tikrity.** 1963. Recent studies on the ecology of *Anopheles apoci* in Iraq. I. The geographical distribution of the breeding places and the morphology of *Anopheles apoci* pupae. *Irak Bul. endemic Dis.* 5: 73-81, illus.



- Bachmann, A. O. and O. H. Casal.** 1962. Notas sobre *Culex* (*Culex*) *Argentinós* (Diptera: Culicidae). Ann. Inst. nac. Microbiol. 1: 77-81, illus.
- Bailly-Choumara, H.** 1965 (1966). Description de la larve et de la nymphe d'*Aedes* (*Neomelaniconion*) *taeniarostris* Theobald, 1910. Observations sur une variation de coloration chez l'adulte. Bull. Soc. Path. exot. 58: 671-676, illus.
- Bailly-Choumara, H. and P. X. Pajot.** 1965 (1966). Contribution à l'étude des *Culex* (*Neoculex*) de la région éthiopienne (Diptera, Culicidae). Description de la larve et de la nymphe de *Culex* (*Neoculex*) *pseudoandreas* Bailly-Choumara. Bull. Soc. Path. exot. 58: 665-671, illus.
- Baisas, F. E.** 1935. (See Catalog, 1935b.)
- Barr, A. R.** 1963. Pupae of the genus *Culiseta* Felt. II. Descriptions and a key to the North American species (Diptera: Culicidae). Ann. ent. Soc. Amer. 56: 124-330, illus.
291. **Belkin, J. N.** 1964. The adults and pupae of *Culex* (*C.*) *kesseli* from Tahiti and remarks on the *atriceps* group (Diptera: Culicidae). Ann. ent. Soc. Amer. 57: 236-239, illus.
- Belkin, J. N., R. X. Schick, and S. J. Heinemann.** 1965. Mosquito studies (Diptera: Culicidae) V. Mosquitoes originally described from Middle America. Contr. Amer. ent. Inst. 1(5): 1-95.
- Bram, R. A.** 1967. Classification of *Culex* subgenus *Culex* in the New World (Diptera: Culicidae). Proc. U. S. Nat. Hist. Mus. 120 (3557): 1-122, illus.
293. **Brengues, J. and J. Hamon.** 1965. Description de la larve et de la nymphe d'*Aedes* (*Aedimorphus*) *nyounae* Hamon et Adam, 1958. Bull. Soc. Path. exot. 58: 92-101, illus.
294. **Casal, O. H.** 1963. Comentarios a proposito de la revalidacion de "*Culex* (*Melanoconion*) *clarki*" Evans (Diptera: Culicidae). Rev. Bras. Biol. 23: 317-320, illus.
- Cerqueira, N. L.** 1961. Sobre *Trichoprosopon* (*R.*) *edwardsianum* (Lane & Cerqueira, 1942) (Diptera Culicidae). Studia ent. 4: 459-464, illus.
296. **Colless, Donald H.** 1962. Notes on the taxonomy of the *Aedes scutellaris* group, and new records of *A. paullusi* and *A. albopictus* (Diptera: Culicidae). Proc. Linn. Soc. N.S.W. 87: 312-315, illus.
- . 1965. The genus *Culex* subgenus *Lophoceraomyia* in Malaya (Diptera: Culicidae). J. med. Ent. 2: 16-306, illus.
- Coluzzi, M.** 1962. Le forme di *Anopheles claviger* Meigen indicate con i nomi *missirolii* e *petragnanii* sono due specie riproduttivamente isolate. R. C. Accad. Lincei 32: 1025-1030.
- . 1964. Morphological divergences in the *Anopheles gambiae* complex. Riv. de Malariol. 43: 197-232, illus.
- Corbet, P. S.** 1963. Observations on *Toxorhynchites brevipalpis conradti* Grünb. (Diptera, Culicidae) in Uganda. Bull. ent. Res. 54: 9-17, illus.
- Coutinho, J. O. and O. P. Forattini.** 1962. Notas sobre Culicidae (Diptera). 4a—Contribuição ao estudo do subgênero *Microculex* com a descrição duma nova espécie. Studia ent. 5: 209-234, illus.
297. **Delfinado, M. D.** 1966. The Culicine mosquitoes of the Philippines, tribe Culicini (Diptera, Culicidae). Mem. Amer. ent. Inst. 7: 1-252, illus.

298. **Dobrotworsky, N. V.** 1962. Notes on Australian mosquitoes (Diptera, Culicidae). VI. Five new Victorian species and a description of the larva of *Aedes milsoni* (Taylor). Proc. Linn. Soc. N.S.W. 87: 291-302, illus.  
———. 1966. Mosquitoes of Tasmania and Bass Straits Islands. Proc. Linn. Soc. N.S.W. 91: 121-146, illus.
- Dodge, H. R.** 1963. Studies on mosquito larvae. I. Later instars of eastern North American species. Canad. Ent. 95: 796-813, illus.  
———. 1964. Larval chaetotaxy and notes on the biology of *Toxorhynchites rutilus septentrionalis* (Diptera: Culicidae). Ann. ent. Soc. Amer. 57: 46-53, illus.  
———. 1966. Studies on mosquito larvae II. The first-stage larvae of North American Culicidae and of world Anophelinae. Canad. Ent. 98: 337-393, illus.
299. **Edwards, F. W.** 1928. (See Catalog.)
300. **Fauran, P.** 1961. Catalogue annoté des culicidés signalés en Guyane Française. Arch. Inst. Pasteur Guiane Inini 465: 1-60.
301. **García, M. and O. H. Casal.** 1964 (1965). Descripción de tres pupas de mosquitos neotropicales (Diptera, Culicidae). Rev. Soc. ent. Argentina 27: 5-10, illus.  
———. 1965. Culicidae (Diptera) del Delta del Paraná. II. Apuntes sistemáticos y biológicos. Delta del Paraná 5(8): 5-16, illus.
- García, M. and R. A. Ronderos.** 1962. Mosquitoes de la Republica Argentina. I. Tribu Anophelini (Diptera—Culicidae—Culicinae). An. Com. Cient. Prov. Bs. As. 3: 103-212, illus.
302. **Guedes, A. S. and M. A. de Souza.** 1964. Sobre *Psorophora (Janthinosoma) albigena* Lutz, 1908 e *Psorophora (Janthinosoma) albipes* (Theobald, 1907) (Diptera, Culicidae). Rev. Bras. Malar. e Doenças trop. 16: 471-486, illus.
- Guedes, A. S., M. A. Souza, C. S. Maciel, and S. H. Xavier.** 1965. Catálogo ilustrado dos mosquitos da coleção do Instituto Nacional de Endemias Rurais. I. Gênero *Psorophora* Robineau-Desvoidy, 1827. Rev. bras. Malar. e Doenças trop. 17: 3-24, illus.
303. **Hamon, J., M. Maffi, P. Grenier, C. S. Ouédraogo, and D. Djimé.** 1966. Notes sur les moustiques de la République Islamique de Mauritanie (Dipt. Culicidae) (Ile partie). Ann. Soc. ent. France 11: 371-383.
304. **International Commission on Zoological Nomenclature.** 1965. Opinion 737. *Bironella gracilis* Theobald, 1905 (Insecta, Diptera): Validated under the plenary powers. Bull. zool. Nomencl. 22: 164-166.
306. **Knight, K. L. and W. B. Hull.** 1951. (See Catalog, 1951b.)
308. **Le Berre, R. and J. Hamon.** 1960 (1961). Description de la larve, de la nymphe et de la femelle d'*Aedes (Neomelanoconion) jamoti* Hamon et Rickenbach, 1954, et révision des clés de détermination concernant le sous-genre *Neomelanoconion* en Afrique au Sud du Sahara. Bull. Soc. Path. exot. 53: 1054-1064, illus.
309. **Lien, J. C.** 1965. Mosquitoes of Taiwan: Genus *Toxorhynchites* Theobald. J. med. Ent. 2: 1-16, illus.
- Lima, A. da Costa, N. Guitton, and O. Ferreira.** 1962. Comentários relativos as espécies da tribo Toxorhynchitini (Megarhinini) com a descrição de uma espécie nova de *Lynchiella* (Diptera, Culicidae). Mem. Inst. Osw. Cruz 60: 225-252, illus.

- Lips, M.** 1962. Anopheles du Congo (ex Belge). 7. Quelques espèces des groupes *Cellia* et *Neocellia*. Références-récoltes-répartition et importance médicale actuelle. Riv. di Parassitol. 23: 107-134.
310. **Marks, E. N.** 1964. Notes on the subgenus *Chaetocruimyia* Theobald (Diptera: Culicidae). Proc. Linn. Soc. N.S.W. 89: 131-147, illus.
- Marks, E. N. and E. R. Nye.** 1963. The subgenus *Ochlerotatus* in the Australian Region (Diptera: Culicidae). VI. The New Zealand species. Trans. R. Soc. N.Z., Zool. 4: 49-60, illus.
311. **Martínez, A., A. F. Prosen and R. U. Carcavallo.** 1964. El alotipo macho de *Aedes* (*Howardina*) *aurivittatus* Cerqueira. An. Inst. Med. Reg. 1962/63, 6: 53-58, illus.
- Maslov, A. V.** 1964. On the systematics of bloodsucking mosquitoes of the group *Culiseta* (Diptera, Culicidae). Ent. Obozr. 43: 193-217, illus. Ent. Rev. 97-107.
- Mattingly, P. F.** 1961. The culicine mosquitoes of the Indomalayan Area. Part V. Genus *Aedes* Meigen, subgenera *Mucidus* Theobald, *Ochlerotatus* Lynch Arribalzaga, and *Neomelanoconion* Newstead. British Museum, London, 62 pp., illus.
- . 1963. New and remarkable *Aedes* (Diptera: Culicidae) from Africa. Proc. R. ent. Soc. Lond. (B) 32: 165-170, illus.
- . 1965. The holotype of *Aedes* (*Geoskusea*) *tonsus* Edwards (Diptera: Culicidae). Proc. R. ent. Soc. Lond. (B) 34: 23, illus.
- . 1965. The culicine mosquitoes of the Indomalayan Area. Part VI. Genus *Aedes* Meigen, subgenus *Stegomyia* Theobald (Groups A, B, and D). British Museum, London, 67 pp., illus.
315. **Peters, W.** 1963a. Mosquitoes of New Guinea (Diptera: Culicidae). Part V. New species and previously undescribed pupae of the genus *Tripteroides* Giles. Proc. R. ent. Soc. Lond. (B) 32: 63-71, illus.
- . 1963b. Mosquitoes of New Guinea (Diptera: Culicidae). VI. The genus *Tripteroides* Giles: a new species of the subgenus *Polylepidomyia* Theobald, notes on the taxonomy and distribution, and a revised key to described pupae. Proc. R. ent. Soc. Lond. (B) 32: 89-100, illus.
- . 1964. Mosquitoes of New Guinea (Diptera: Culicidae). Part IX. Further new species of *Uranotaenia* Lynch Arribalzaga and notes on the genus. Proc. R. ent. Soc. Lond. (B) 33: 19-29, illus.
316. **Qutubuddin, M.** 1945. A description of the hitherto unknown female of *Aedes* (*Diceromyia*) *periskeletus* (Giles) 1902. Proc. nat. Acad. Sci., India 15(2): 33-35.
- Quy, Do Van.** 1963. Clefs pour la détermination des 25 espèces les plus communes d'*Anopheles* (adultes, femelles et larves) du Sud-Viêt-nam. Rapp. ann. Fonct. tech. de Inst. Pasteur du Viet-Nam, Ann. 1962: 26-34, illus.
317. **Reid, J. A.** 1963a. Notes on anopheline mosquitoes from Malaya, with descriptions of three new species. Ann. trop. Med. Parasit. 57: 97-116, illus.
- . 1963b. A note on the structure of the pupal trumpet in some mosquitoes. Proc. R. ent. Soc. Lond. (B) 38: 32-38, illus.

- \_\_\_\_\_. 1965. A revision of the *Anopheles aitenii* group in Malaya and Borneo. Ann. trop. Med. Parasit. 59: 106-125, illus.
- \_\_\_\_\_. 1966. A note on *Anopheles subpictus* Grassi and *A. indefinitus* Ludlow (Diptera: Culicidae). J. med. Ent. 3: 327-331, illus.
- Reid, J. A. and J. Bonne-Wepster.** 1966. *Anopheles errabundus* (Swellengrebel, 1925) (Insecta, Diptera): proposed suppression as a specific name under the plenary powers. Z.N. (S.) 1760. Bull. zool. Nomencl. 23: 190.
317. **Rickenbach, A. and L. Ferrara.** 1964. Description de la larve et de la nymphe de *Aedes (Aedimorphus) rickenbachi* Hamon et Adam, 1959 (Diptera: Culicidae). Bull. Soc. Path. exot. 57: 972-978, illus..
- Ronderos, R. A. and A. O. Bachmann.** 1962 (1963). A proposito del complejo *Mansonia* (Diptera-Culicidae). Rev. Soc. ent. Argentina 25: 43-51, illus.
- \_\_\_\_\_. 1963. *Mansoniini neotropicales I* (Diptera-Culicidae). Rev. Soc. ent. Argentina 26: 57-65, illus.
- Ronderos, R. A. and M. García.** 1962 (1963)a. Description de pupas de *Aedes* argentinos (Diptera-Culicidae). Rev. Soc. ent. Argentina 25: 35-37, illus.
- \_\_\_\_\_. 1962 (1963)b. Nota sinonimica en Culicidae (Diptera). Rev. Soc. ent. Argentina 25: 38.
318. **Russell, P. F., L. S. West, R. D. Manwell, and G. MacDonald.** 1963. Practical Malariology, 2nd Ed., xv + 750 pp., London, Oxford University Press, illus.
321. **Service, M. W.** 1962. Keys to the West African Anophelini. Acta Tropica 19: 120-158.
- \_\_\_\_\_. 1963. The ecology of the mosquitoes of the northern Guinea savannah of Nigeria. Bull. ent. Res. 54: 601-632, illus.
- Slooff, R.** 1963. Some notes on *Bironella (Bironella) confusa* Bonne-Wepster (Diptera; Culicidae; Anophelinae). Ent. Ber. Amst. 23: 137-142, illus.
322. **Somerén, E. C. van and J. Hamon.** 1964. A new species of *Culex* from Tanganyika, the descriptions of the pupa of *Aedes usumbara* Mattingly and the early stages of *Eretmapodites tonsus* Edwards. J. ent. Soc. S. Afr. 27: 78-85, illus.
- Souza, A. and A. S. Guedes.** 1962. Sobre *Psorophora (Janthinosoma) fiebrigi* Edwards, 1922 (Diptera—Culicidae). Rev. bras. Malariol. e Doenças trop. 14: 249-254, illus.
- Steffan, W. A.** 1966. A checklist and review of the mosquitoes of the Papuan subregion (Diptera: Culicidae). J. med. Ent. 3: 179-237, map.
- Stone, A., K. L. Knight, and H. Starcke.** 1959. A synoptic catalog of the mosquitoes of the world. The Thomas Say Foundation, Ent. Soc. Amer., Vol. 6, 358 pp.
324. **Vattier, G. and J. P. Adam.** 1962 (1963). Description de la nymphe d'*Uranotaenia cavernicola* Mattingly, 1954. Notes morphologiques et écologique sur la larve et l'adulte. Bull. Soc. Path. exot. 55: 911-918, illus.
325. **Wattal, B. L. and N. L. Kalra.** 1965. An entomological survey of Dehra Dun Valley (Uttar Pradesh). Part II. Description of *Culex (Culicomyia) ramakrishnii* sp. n. and allotype (♂) of *Uranotaenia*

*maculipleura* Leicester, 1908. Bull. ind. Soc. Mal. Com. Dis. 2: 309-313, illus.

**Wharton, R. H.** 1962. The biology of *Mansonia* species in relation to the transmission of filariasis in Malaya. Inst. med. Res. Fed. Malaya Bull. 11: 1-114, illus.

### Type Depositories

327. ANIC. Australian National Insect Collection, Canberra, Australia.  
 BNI. Barnhard-Nocht-Instituts für Schiffs- und Tropenkrankheiten, Hamburg, Germany.  
 CMC. Department of Parasitology, Chungshan Medical College, Canton.  
 DERM. Laboratorio de Entomologíade de la División de Endemias Rurales, Maracay, Venezuela.
329. NCID. National Institute of Communicable Diseases, Delhi, India.  
 NMC. Naturwissenschaftlichen Museum der Coburger Landestiftung, Coburg, Germany.  
 Australia (ANIC).
330. China (CMC, SMC), Germany (BNC, NMC), India (NICD), Venezuela (DERM).

### Index

336. *cephasi*.—Change to *cephasi*.  
 338. *decannus*.—Change to *deccanus*.  
 344. *josephinae*.—Change to *josephineae*.  
*karwari* (Barraud).—Change to *karwari*.  
 347. *miachaetessus*.—Change to *miachaetessa*.  
 351. *pennai*.—Change 151 to 150.  
 353. *reptans* Linnaeus. Change "Mon-mosquito" to "Non-mosquito."  
 354. *scutipunctatus*.—Change "Neivan" to "Neiva."  
*shintiensis*.—Change "Lein" to "Lien."  
 355. *stokesi*.—Change 196 to 197.

### Index to Supplement III

This includes only those names not indexed in the original catalog or in Supplements I and II. The page numbers here refer to the number at the left in the preceding text, equivalent to the proper position in the original catalog.

<i>aculeatus</i> Colless .....	232	<i>catharinensis</i> (Lima, Guitton, and Ferreira) .....	59
<i>acutipalus</i> Colless .....	232	<i>cheni</i> Ho .....	244
<i>alani</i> Forattini .....	240	<i>chiungchungensis</i> Hsü .....	234
<i>albosternopleura</i> Peters .....	109	<i>collessi</i> Reid .....	17
<i>alphus</i> Colless .....	232	<i>covagarciai</i> Forattini .....	245
<i>alticola</i> Peters .....	117	<i>cozumelensis</i> Diaz Najera .....	173
<i>amaniensis</i> Someren and Hamon .....	225	<i>crassicornis</i> Colless .....	232
<i>amiensis</i> Peters .....	109	<i>cubitatus</i> Colless .....	232
<i>amurensis</i> Maslov .....	221	<i>culionicus</i> Delfinado .....	231
<i>antipodea</i> Dobrotworsky .....	221	<i>demiissus</i> Colless .....	232
<i>aurata</i> Dobrotworsky .....	108	<i>dialloi</i> Hamon and Brengues .....	192
<i>belkini</i> Casal and Garcia .....	84	<i>dispectus</i> Bram .....	239
<i>benoiti</i> Wolfs .....	110	<i>ebogoensis</i> Rickenbach and Ferrara .....	192
<i>bertii</i> Cova García and Rausseo .....	110	<i>eukrines</i> Bram and Rattarithikul .....	233
<i>bickleyi</i> Forattini .....	243		



explorator Marks	145	peytoni Bram and Rattanaarithikul	235
fernandezi Casal, García, and Cav- alieri	247	phaceasiatus Marks	150
fuscophilonis Bram and Rattana- rithikul	233	philippinensis Delfinado	118
gameti Bailly-Choumara	248	pholeter Bram and Rattanaarithikul	235
ganapathi Colless	233	pseudoandreas Bailly-Choumara	228
garioui Bailly-Choumara and Rickenbach	227	ramakrishnii Wattal and Kalra	238
gibbulus Delfinado	233	reidi Colless	235
grenieri Grjebine	44	rossi Delfinado	118
hamoni Mattingly	192	samoensis Stone	104
hirsutifemora Peters	113	sapiens Marks	153
hodgkini (Wharton)	102	setifer Delfinado	213
imperfectus Dobrotworsky	147	shopei Forattini and Toda	280
incomptus Bram and Rattanaarithi- kul	233	shrivastavi Wattal, Kalra and Krishnan	231
inculus Colless	233	simanini Gutsevich	154
lanei Coutinho and Forattini	280	sinensis (Meng and Wu)	219
lasaensis Meng	148	sorsogonensis Bañez and Jueco	171
latifoliatus Delfinado	231	spiculosus Bram and Rattanaarithi- kul	235
linesi Marks	148	stanleyi Peters	171
lorengau Peters	68	stricklandi Reid	29
lottei Hamon and Brengues	194	subbasalis Dobrotworsky	171
lucaris Colless	234	swahilicus Gillies	56
macdonaldi Colless	234	szechuanensis Hsu	71
macmillani Marks	175	tabu Ramalingam and Belkin	188
malayensis Colless	187	tangensis Kuhlow	48
marksae Dobrotworsky	72	tasmaniensis Dobrotworsky	29
mombasaensis Mattingly	149	tauffliebi Rickenbach and Ferrara	198
moresbyensis Peters	116	tejerai Cova García	250
nevadensis Chapman and Barr	143	Thaionmyia Bram	239
nkolbissonensis Rickenbach and Hamon	123	tigertti Scanlon and Peyton	29
noniae Reid	24	traubi Colless	235
novaguinensis Peters	117	tricontus Delfinado	232
novohanoverae Peters	69	tutuila Ramalingam and Belkin	172
oswaldoi Forattini	252	uncinatus Delfinado	232
papuensis Peters	213	vadakadiensis Doraisamy	55
paralateralis Peters	118	variegata Dobrotworsky	108
paranovaguinensis Peters	118	whartoni Mattingly ( <i>Aedes</i> )	203
perplexus Peters	72	whartoni Reid ( <i>Anopheles</i> )	30
		whartoni Colless ( <i>Culex</i> )	235
		wilfredi Colless	235
		xenophobus Ronderos	280

## REPLACEMENT NAMES FOR PREOCCUPIED SPECIFIC NAMES IN DOLICHOPODIDAE

(DIPTERA)

*Medetera postminima* nomen novum for *Medetera minima* Van Duzee, 1925, *Psyche* 32: 180 (California, U.S.A.), not *Medetera minima* (as *Medeterus minimus*) De Meijere, 1916, *Tijd. Ent.* 59: 259 (Java); also recorded from Sumatra by Hollis, 1964, *Beaufortia* 10: 260.

*Sympycnus psimplex* nomen novum for *Sympycnus simplicipes* De Meijere, 1916, *Tijd. v. Ent.* 59: 252 (Java), not *Sympycnus simplicipes* Becker, 1908, *Mitteil. Zool. Mus. Berlin* 4: 46 (Canary Islands, Europe). This species has recently been recorded from Sumatra by Hollis, 1964, *Beaufortia* 10: 269, under the De Meijere name.—GEORGE C. STEYSKAL, *Entomology Research Division, ARS, U.S. Department of Agriculture, Washington, D.C. 20560.*